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FIG. 1A

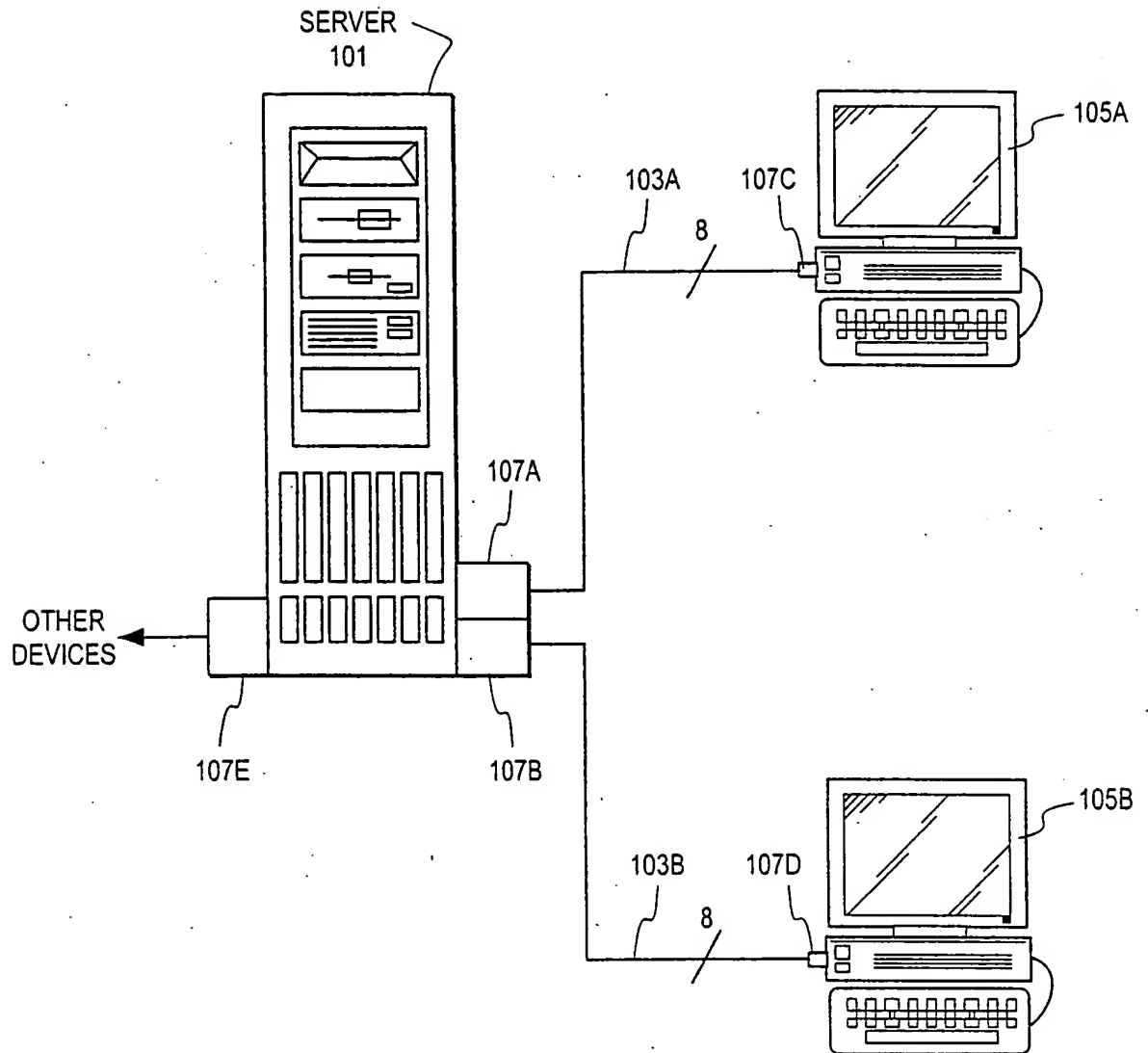
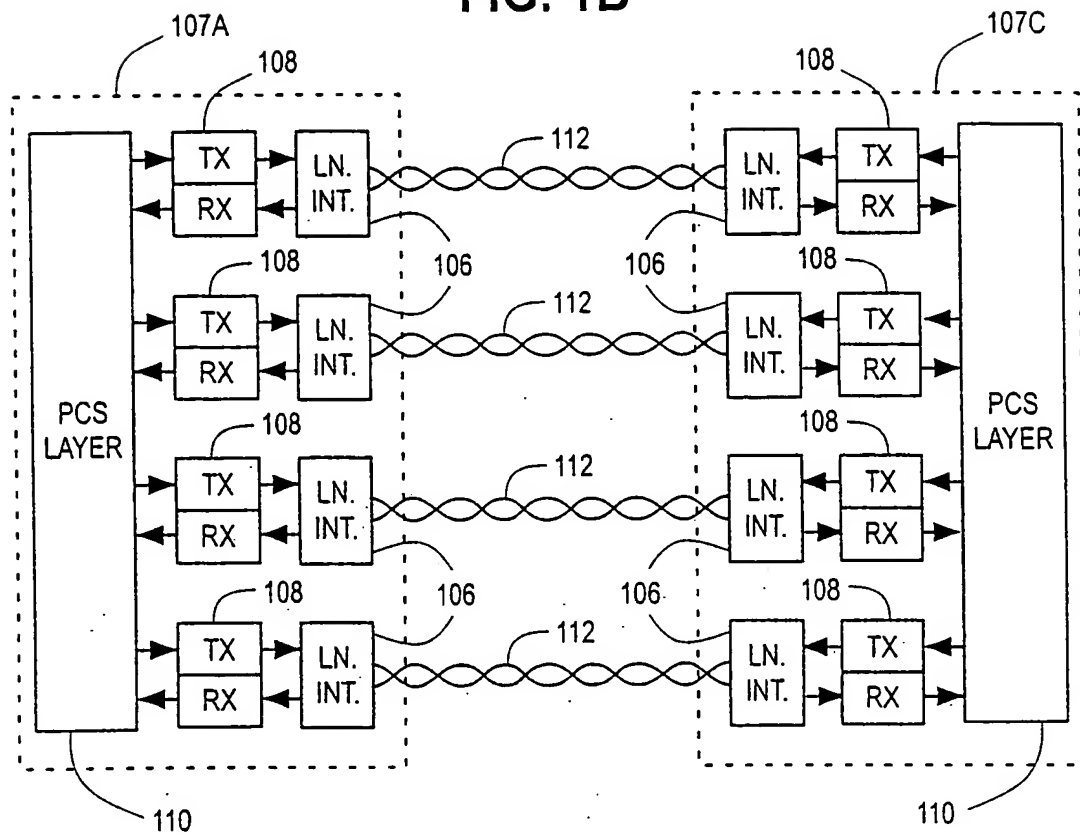
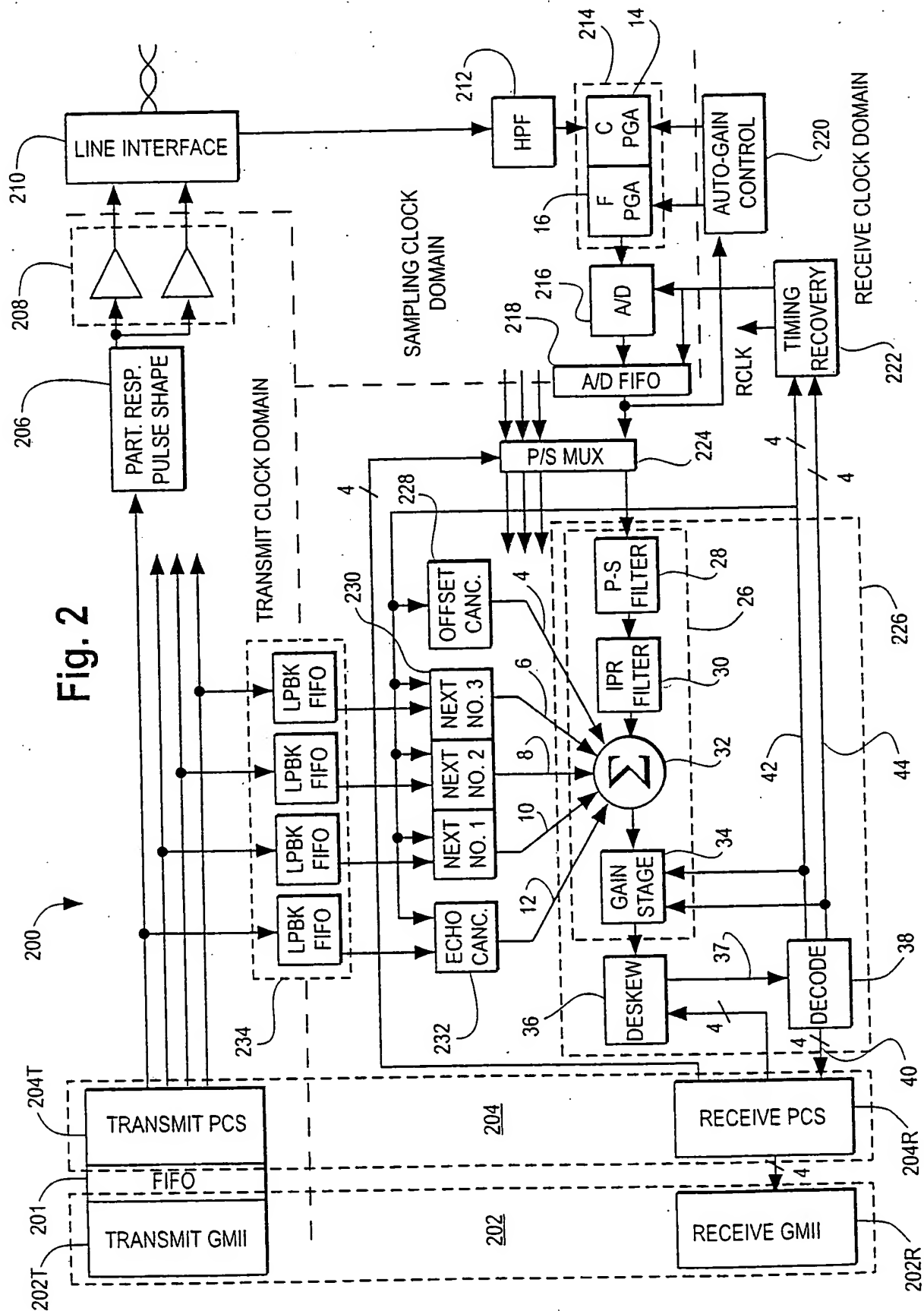


FIG. 1B





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FIG. 3

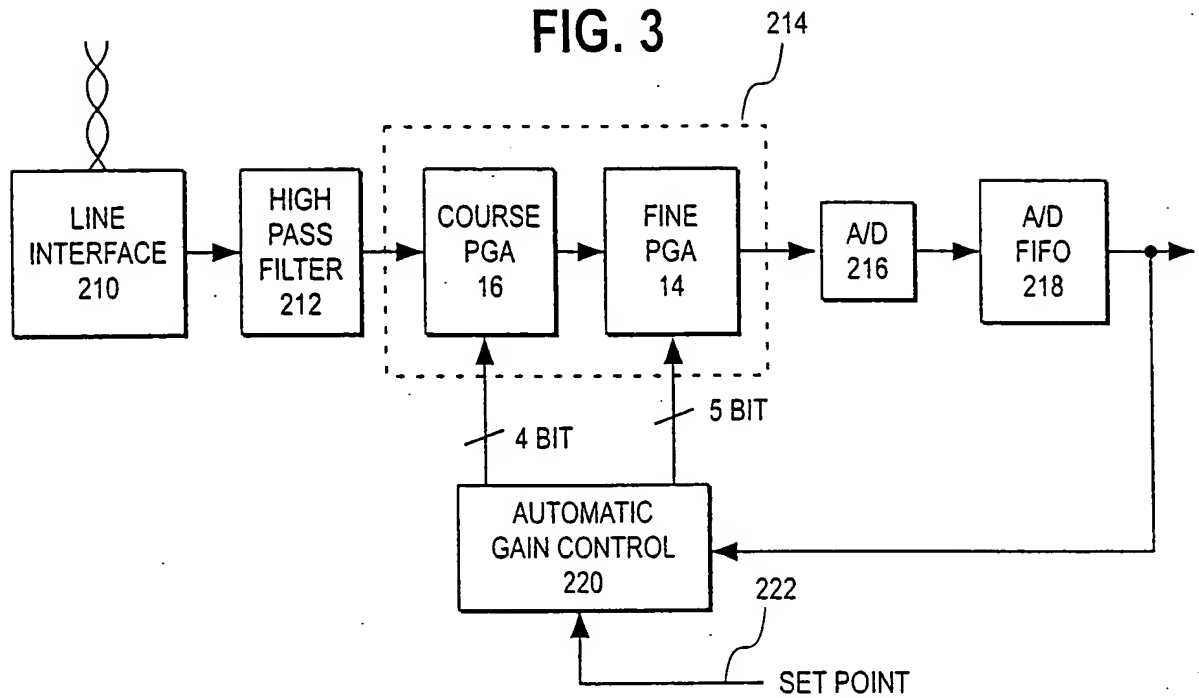
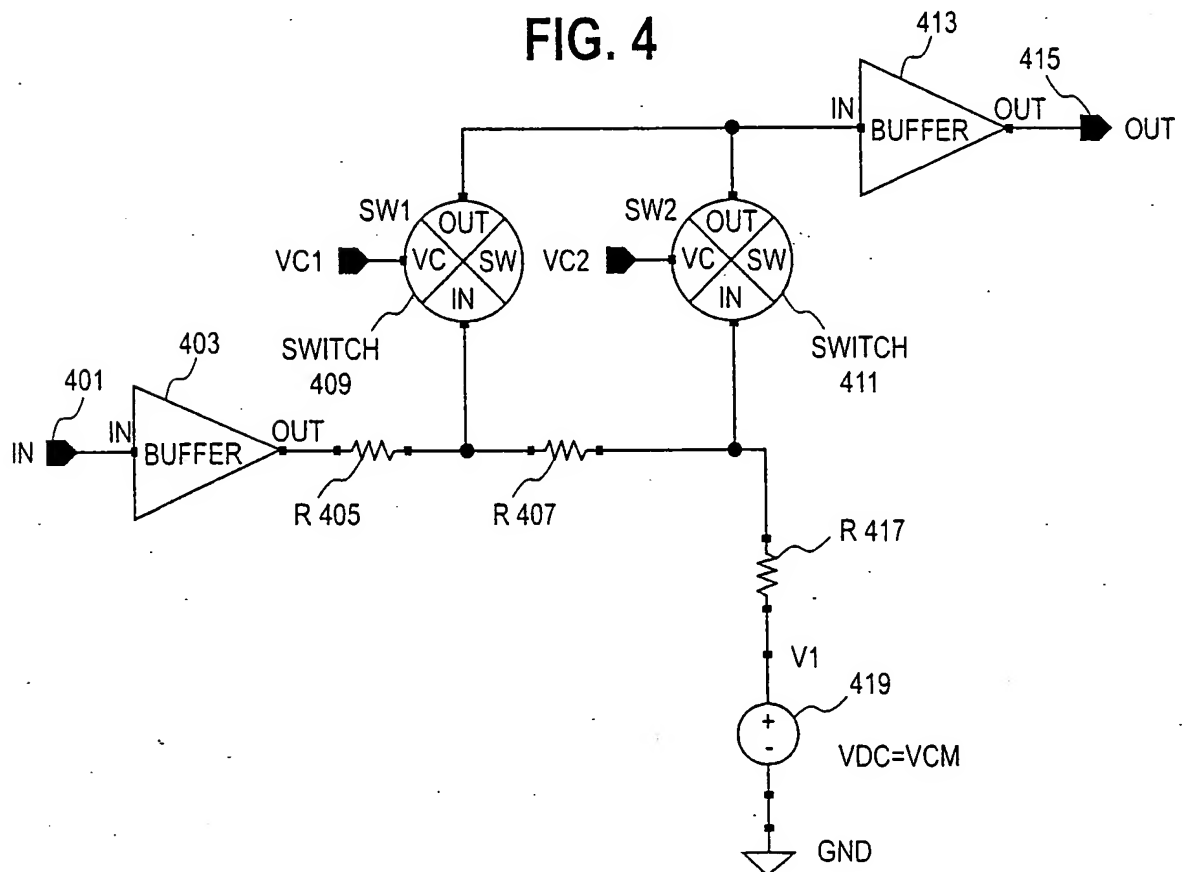


FIG. 4



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FIG. 5

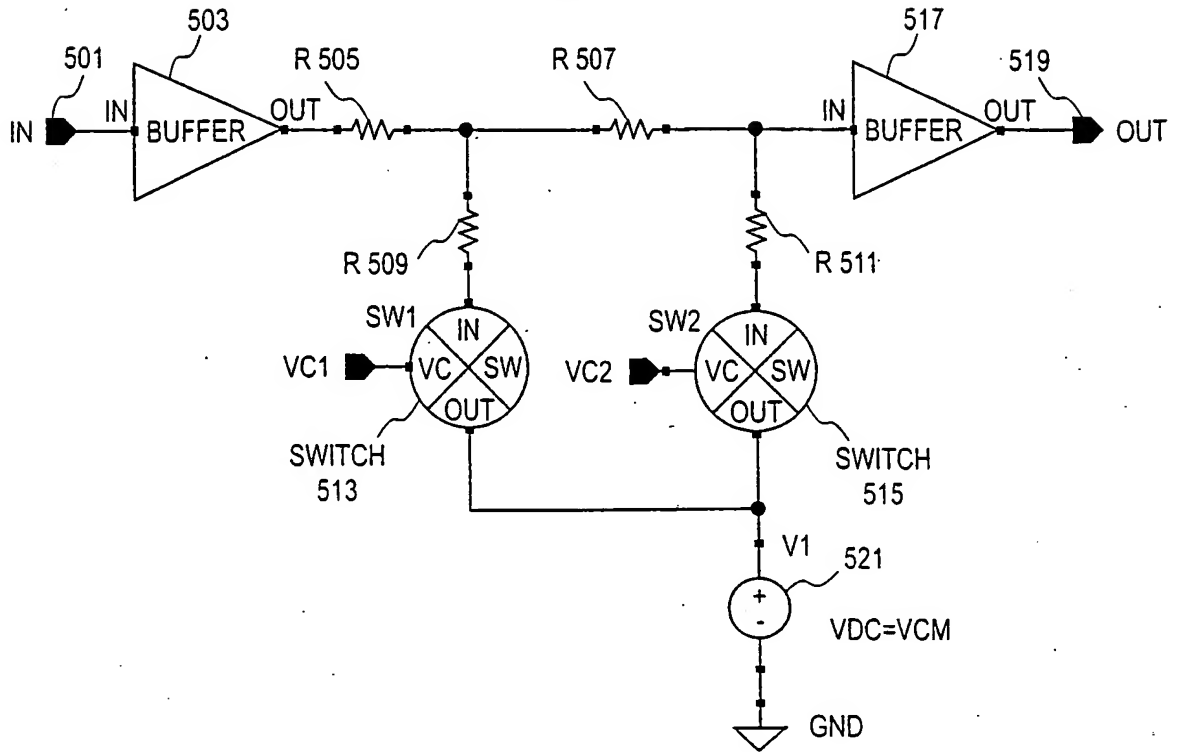
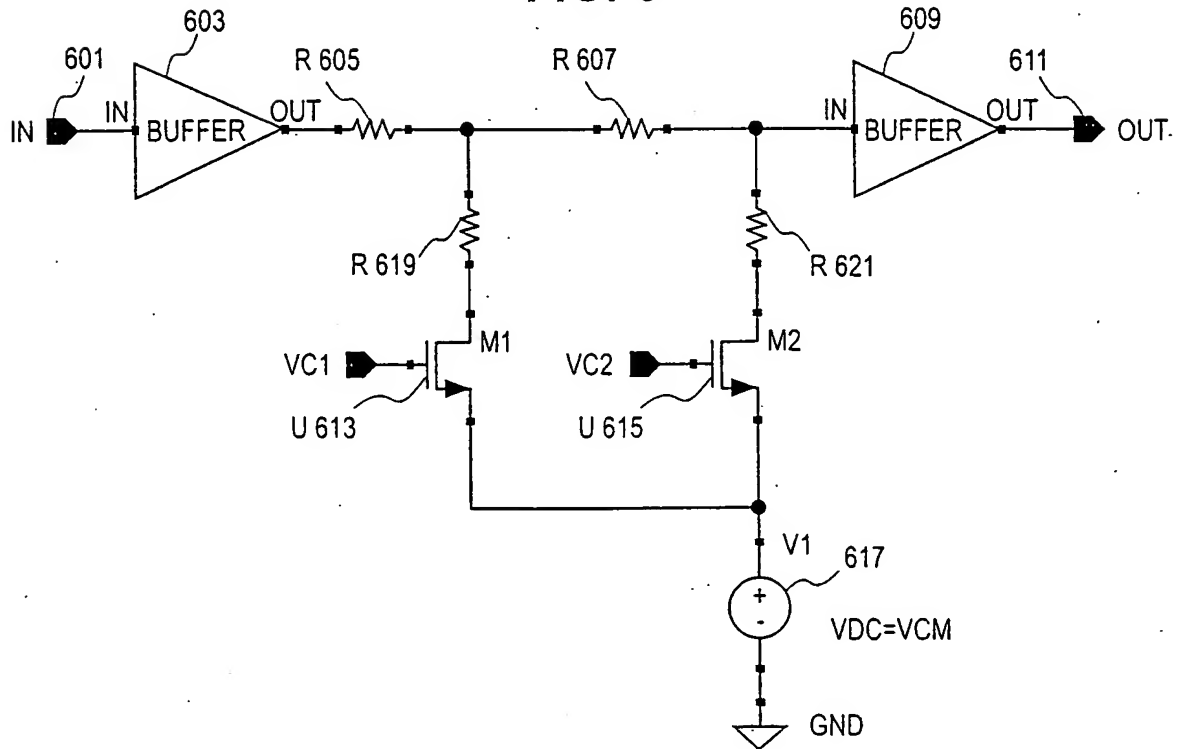


FIG. 6



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FIG. 7

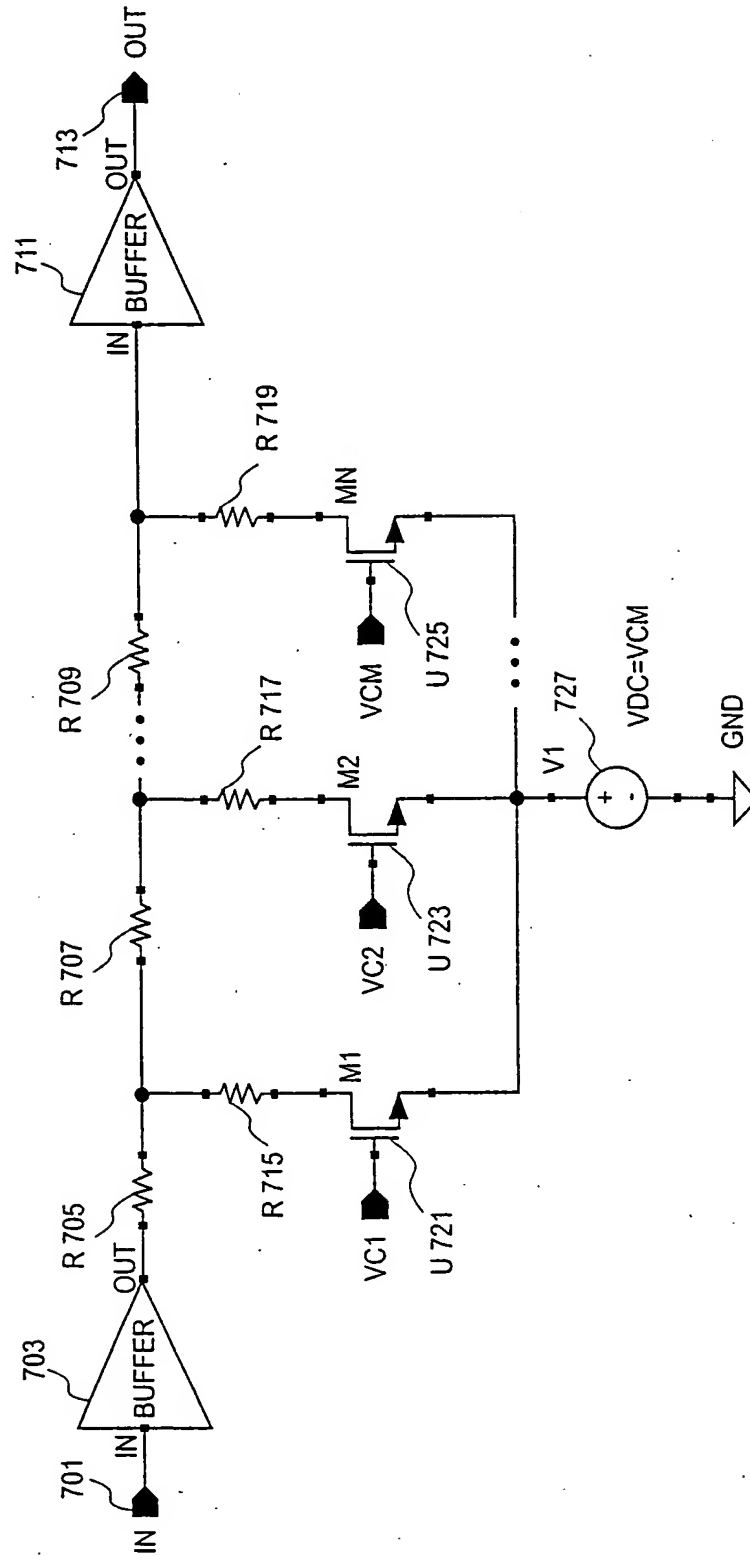
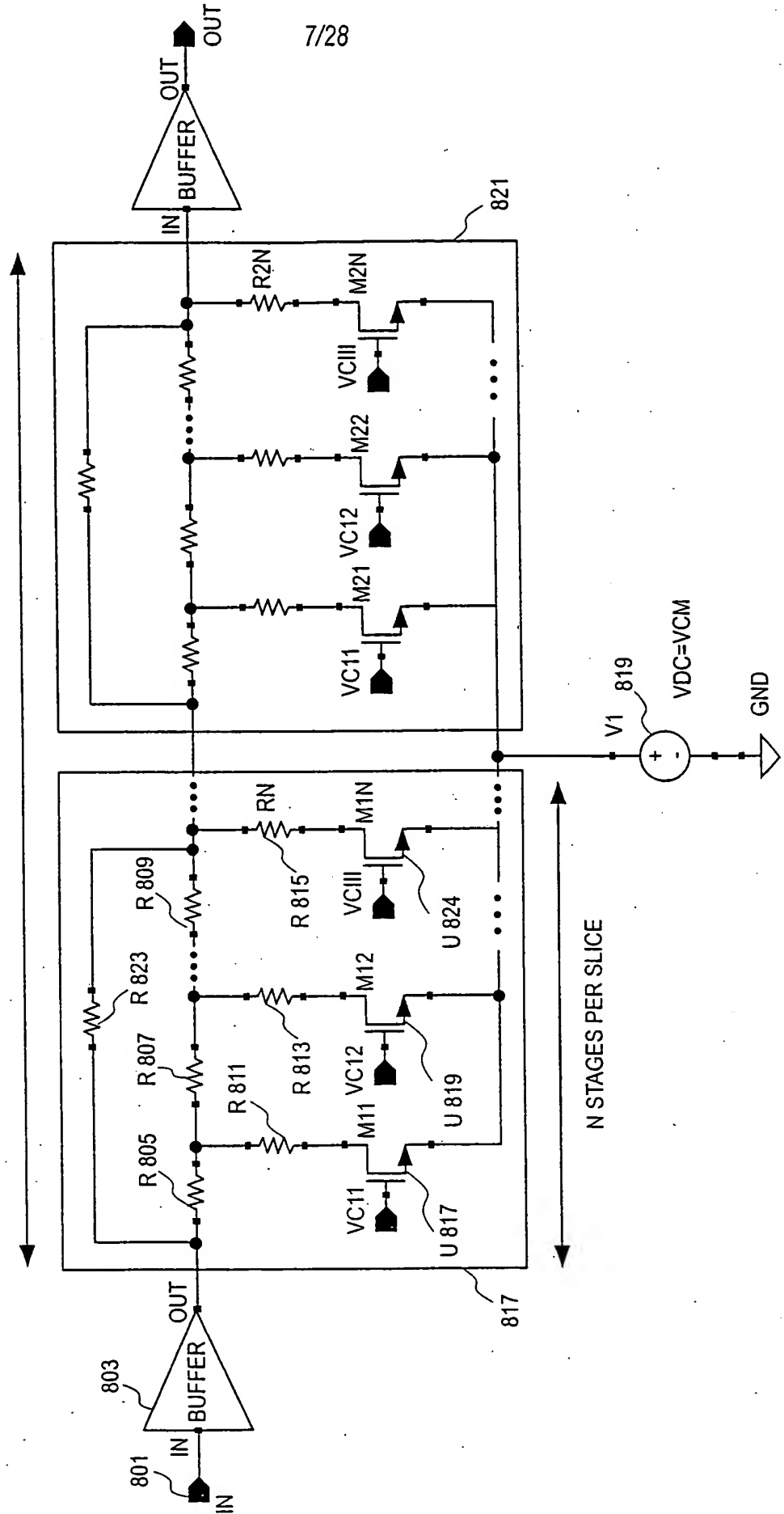


FIG. 8

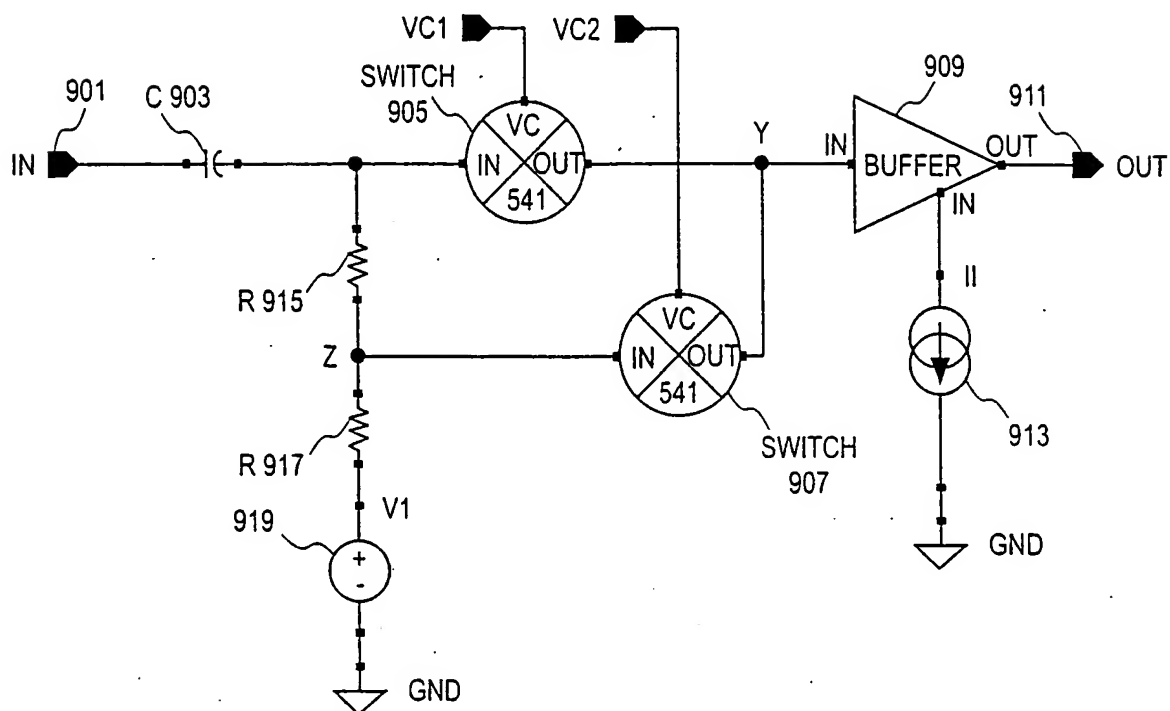
J SLICES



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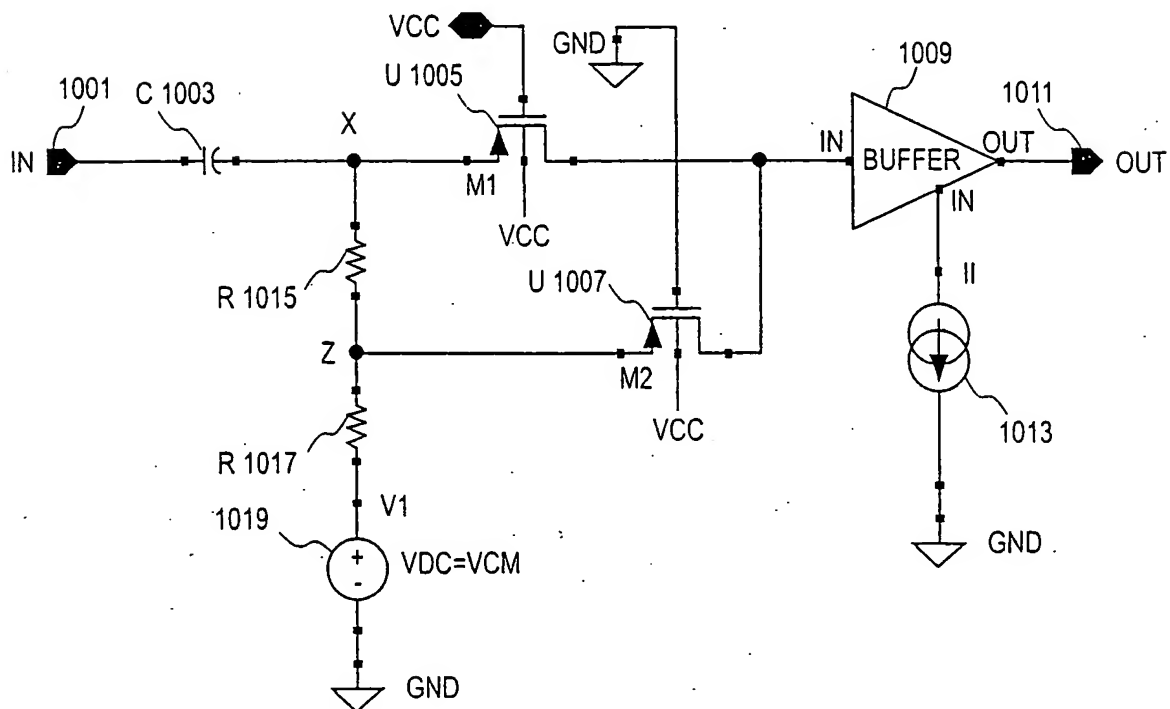
**FIG. 9**

PRIOR ART



**FIG.10**

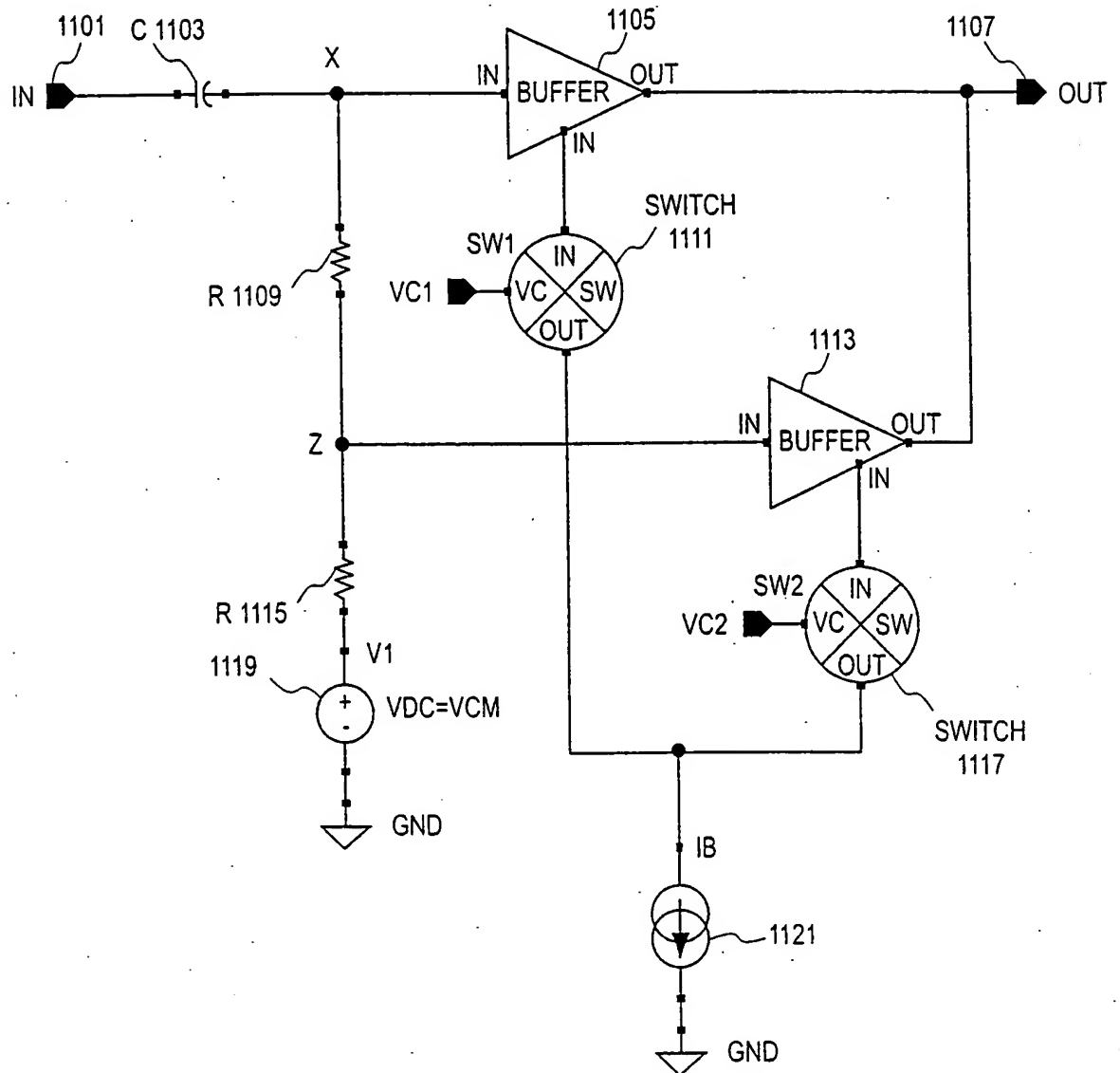
PRIOR ART





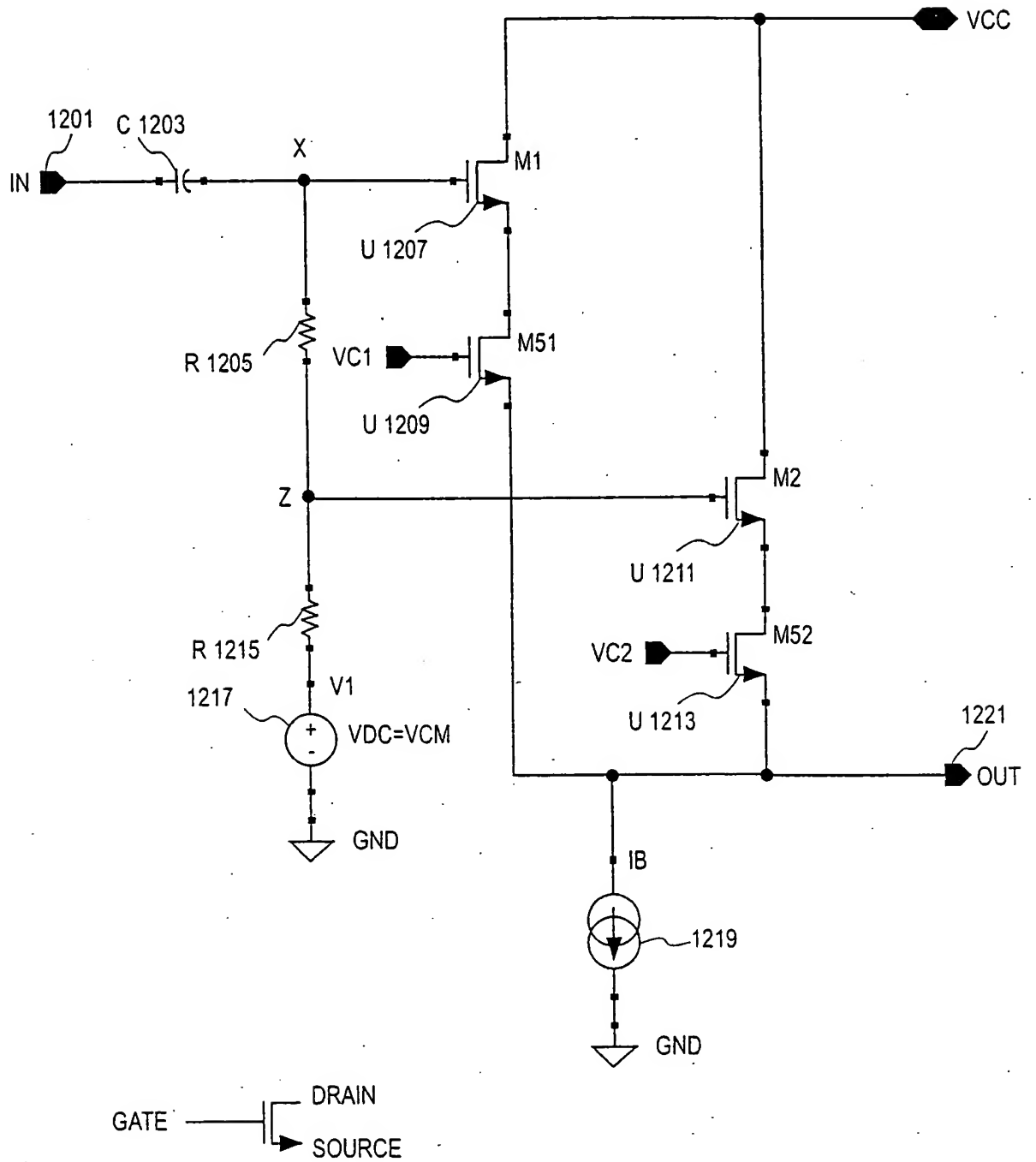
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FIG. 11



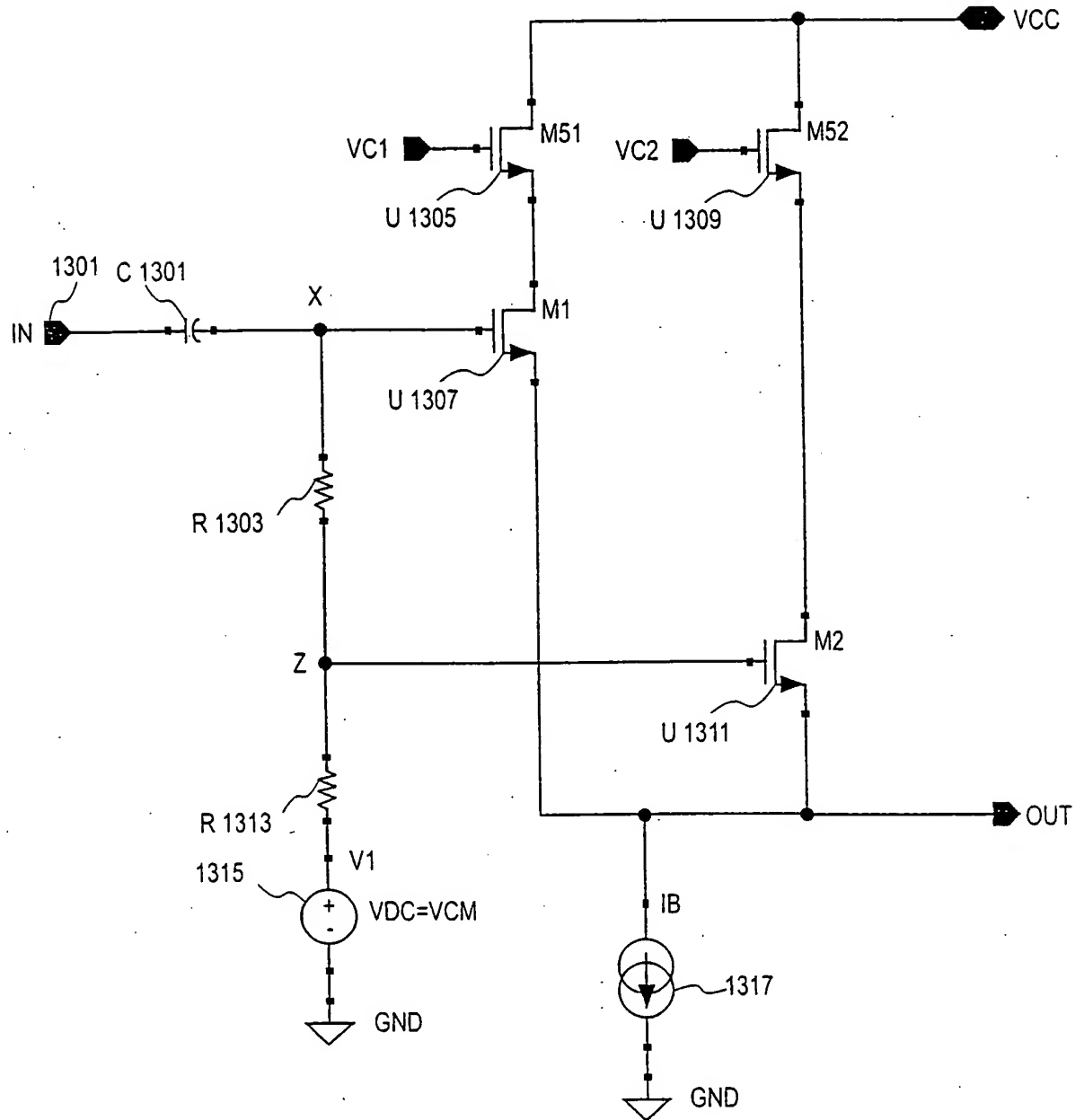
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FIG. 12

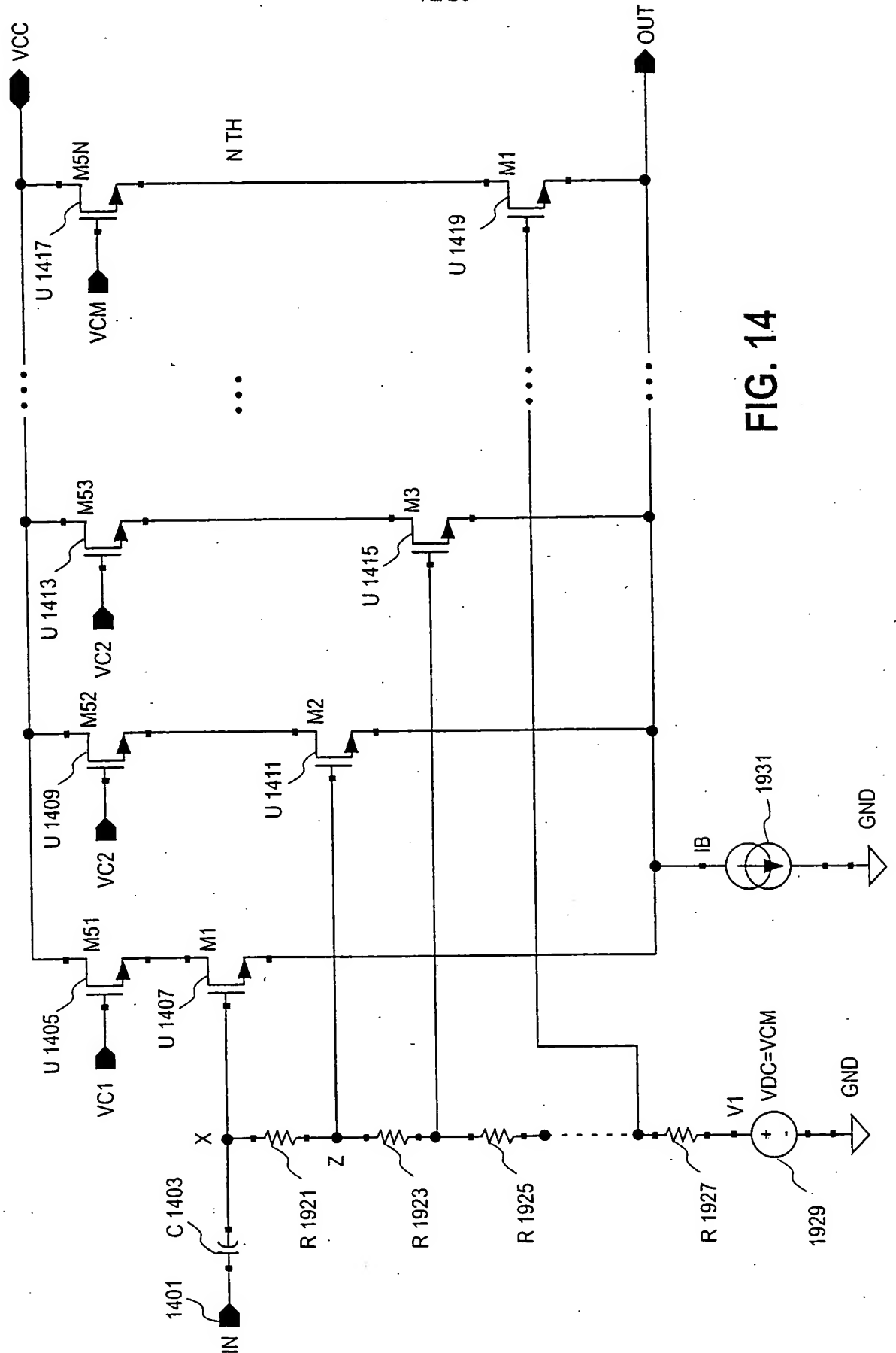


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FIG. 13



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FIG. 15

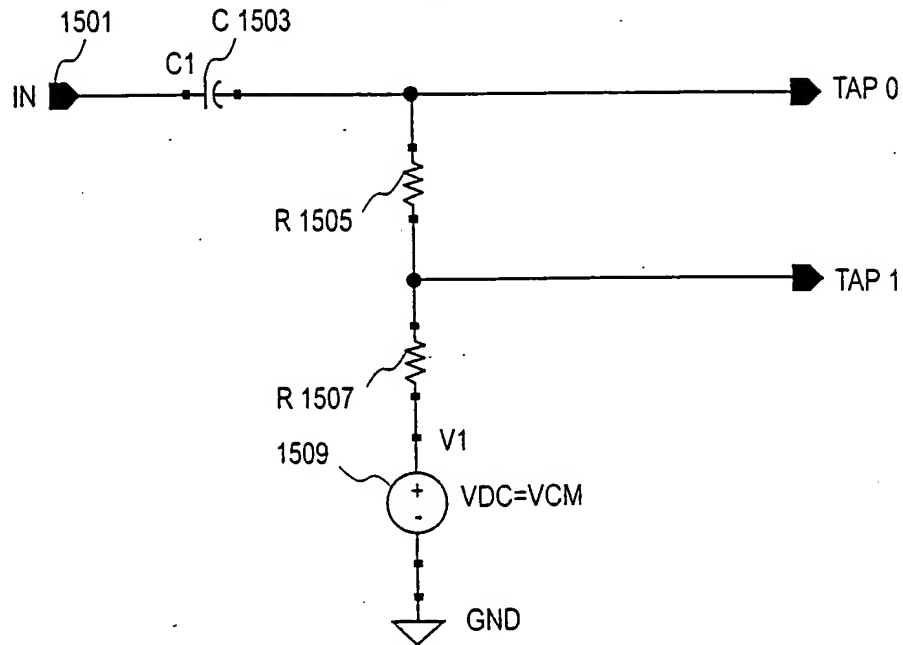
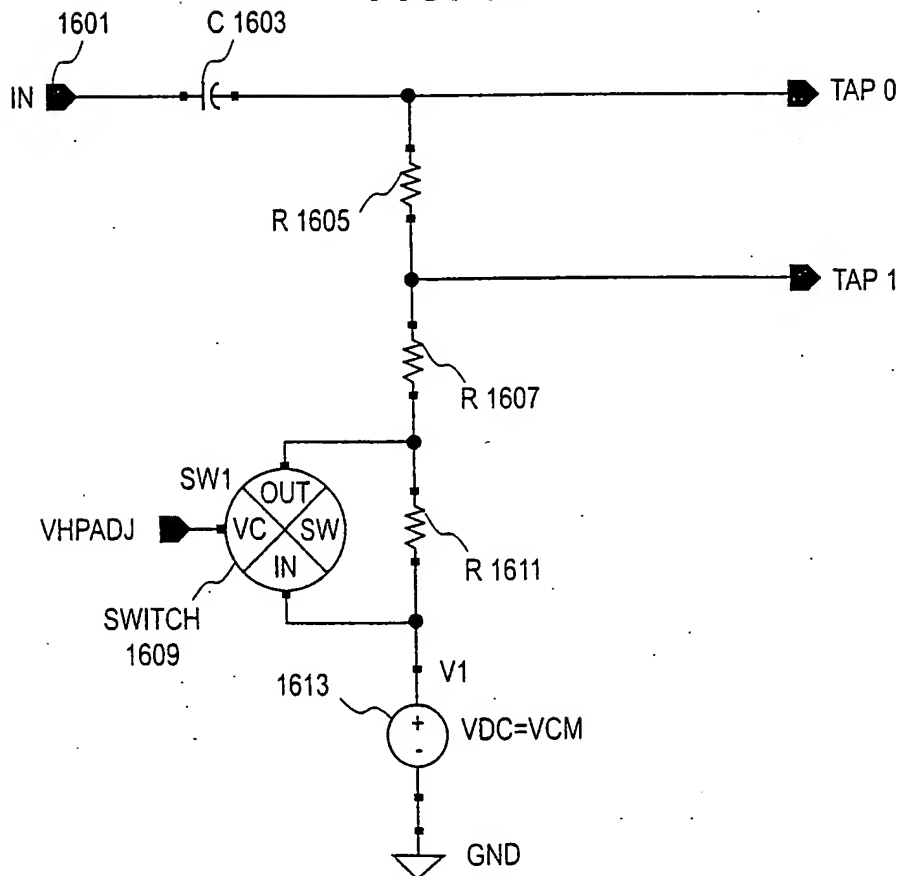


FIG. 16



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FIG. 17

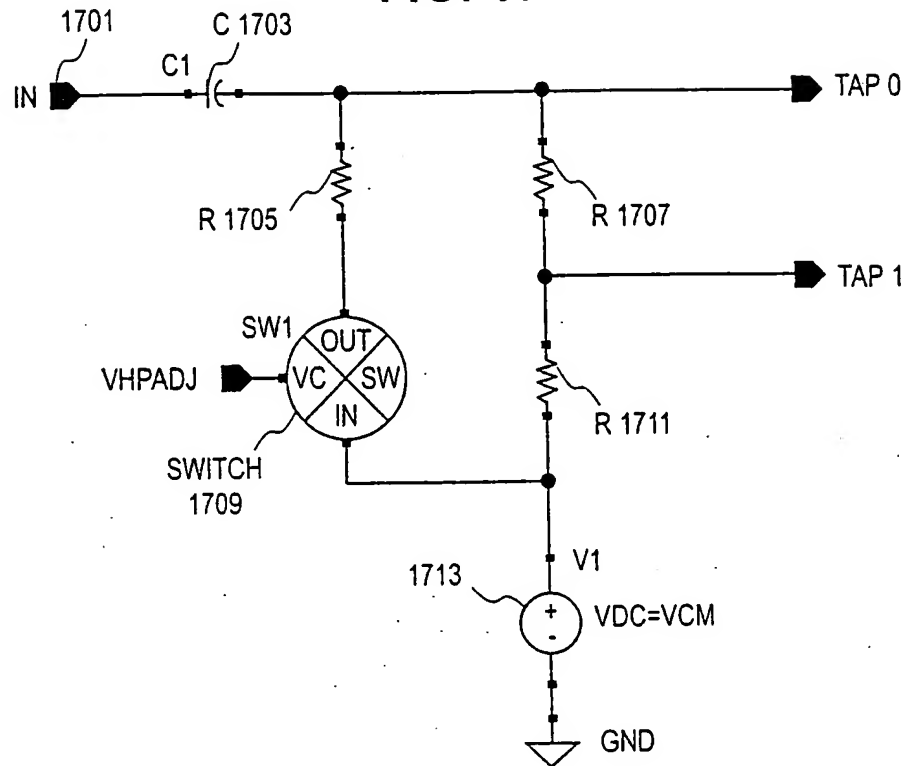
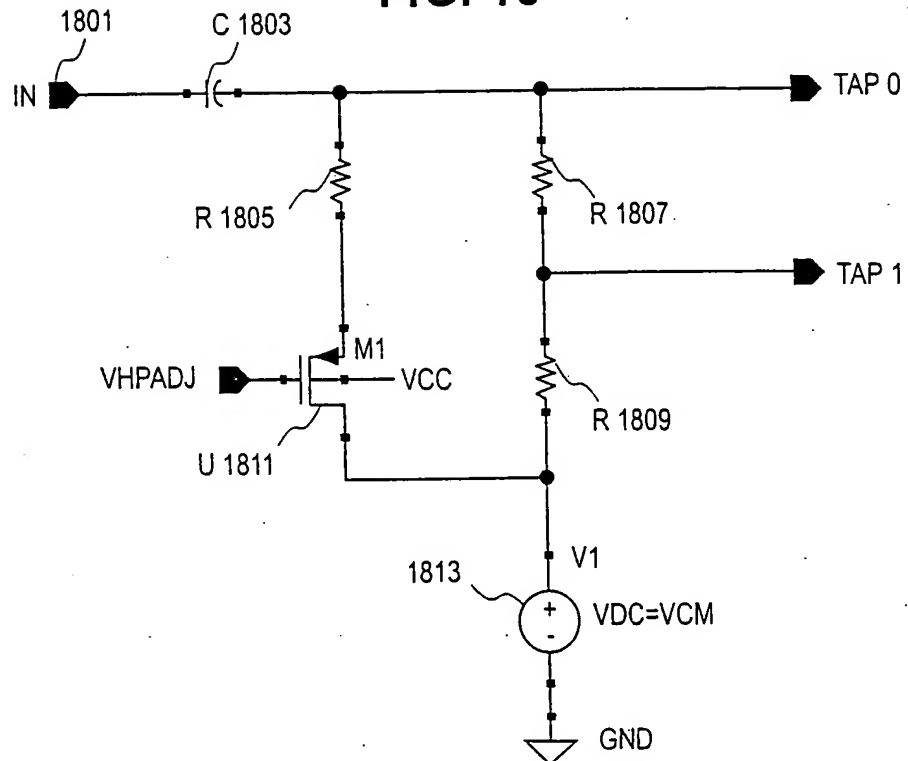
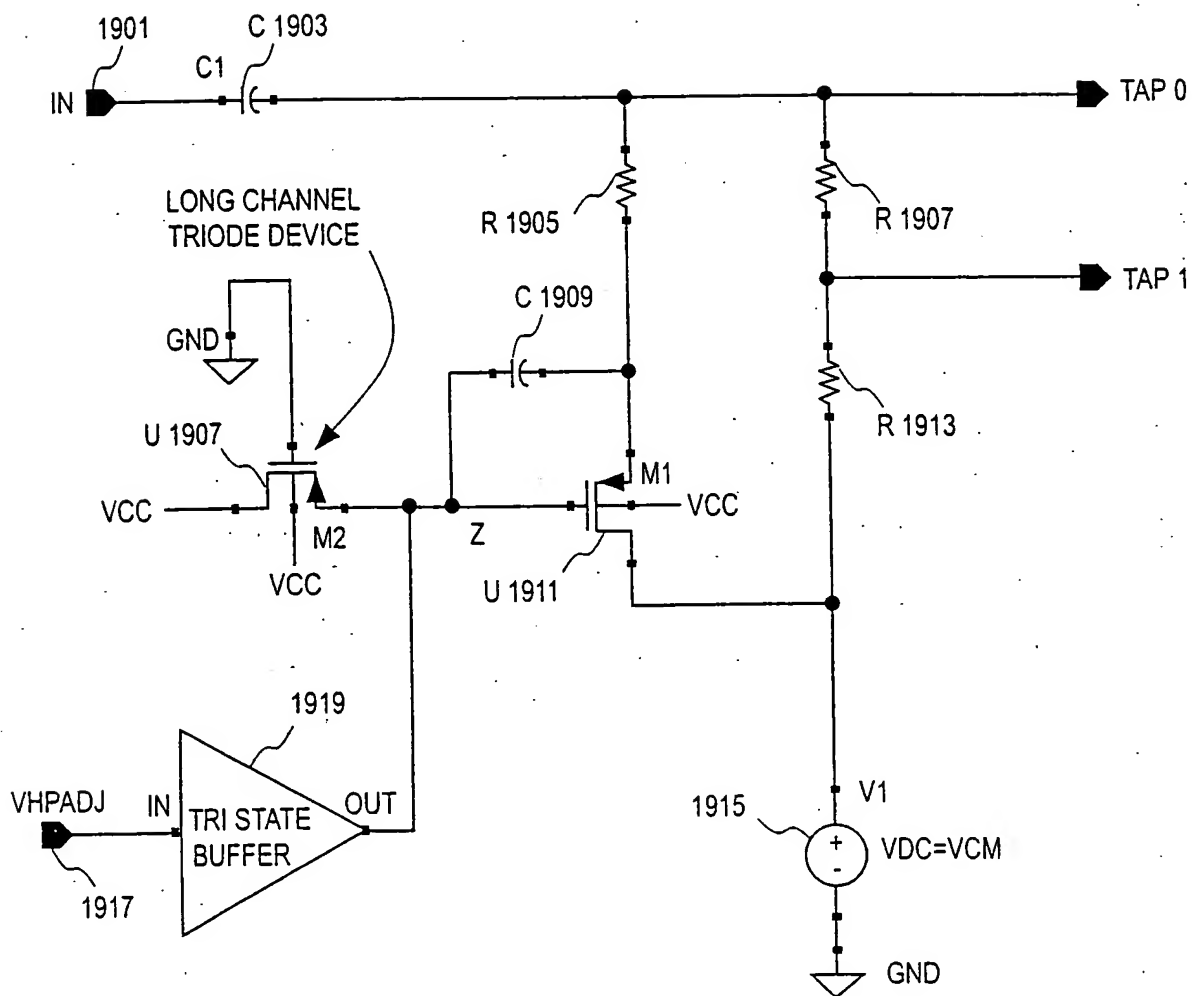


FIG. 18



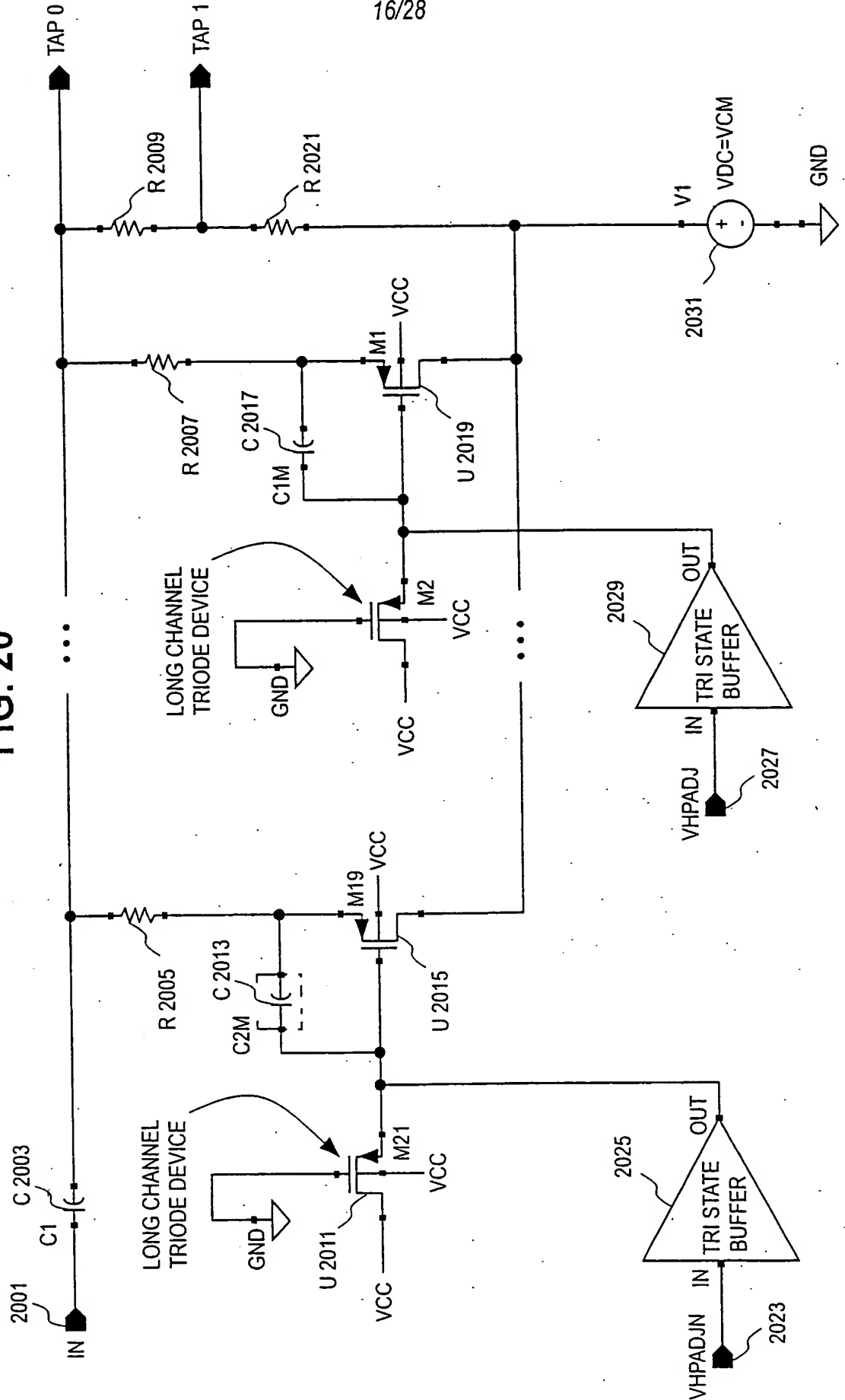
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FIG. 19



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FIG. 20

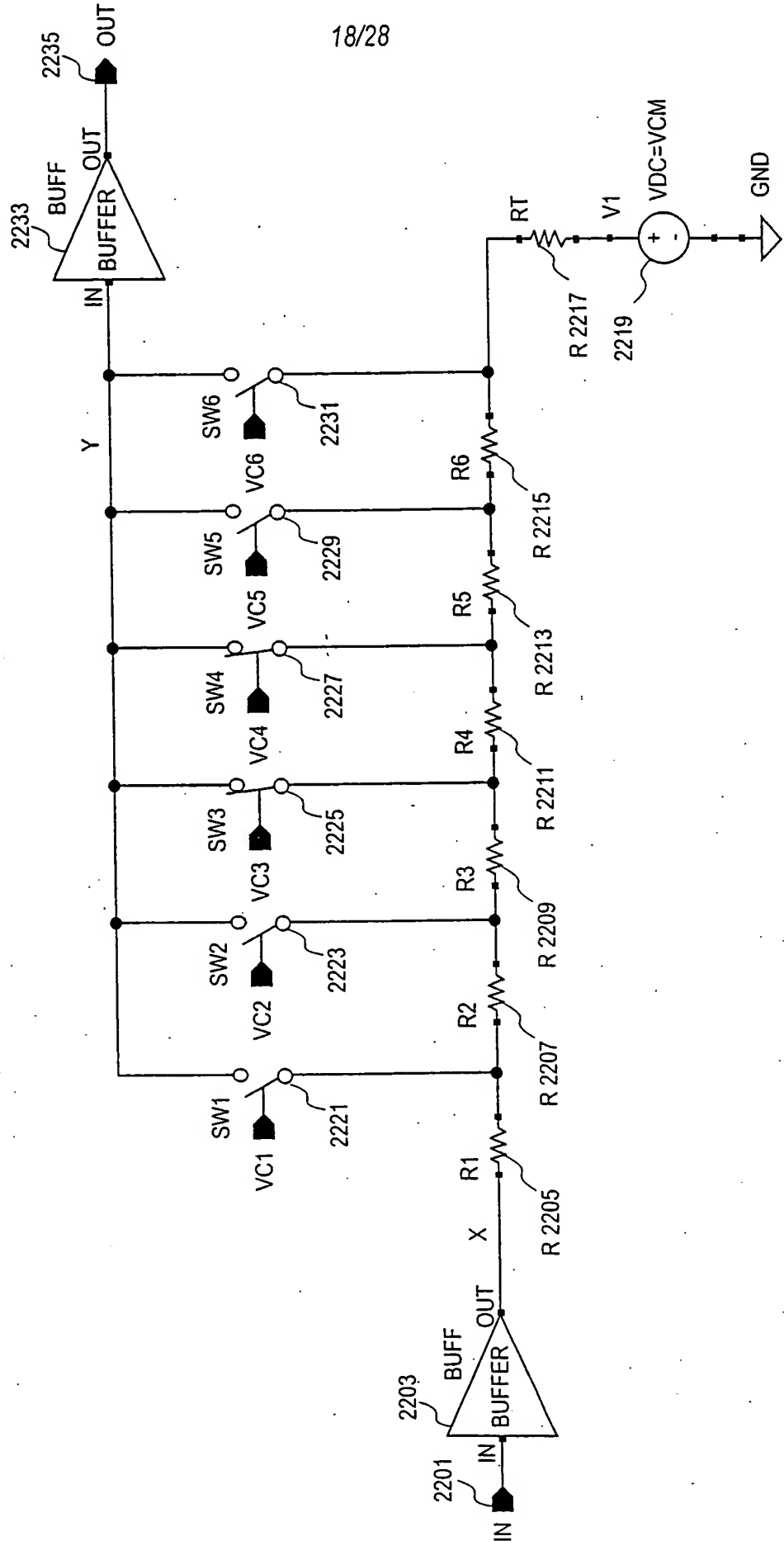






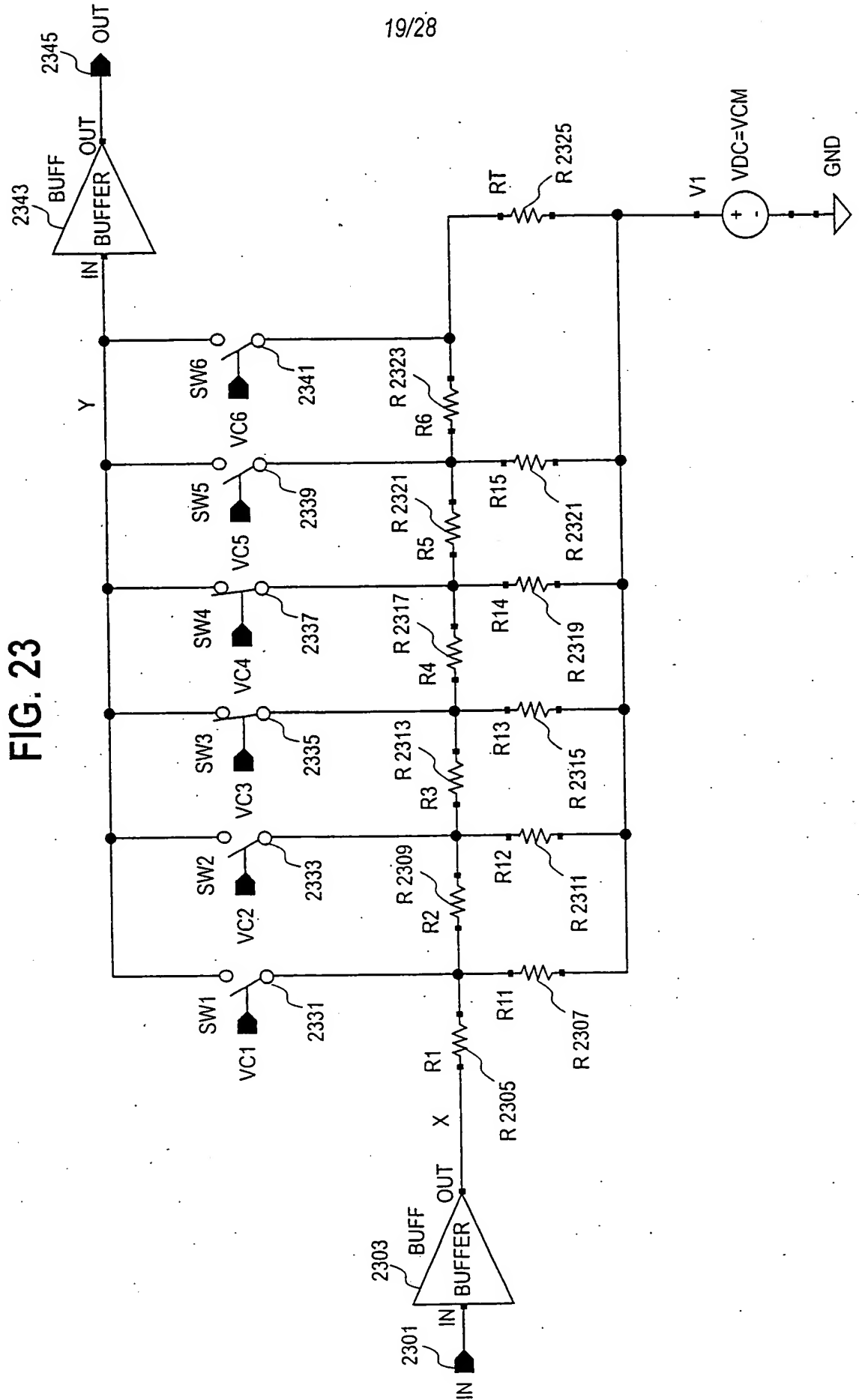
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FIG. 22



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FIG. 23



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FIG. 24

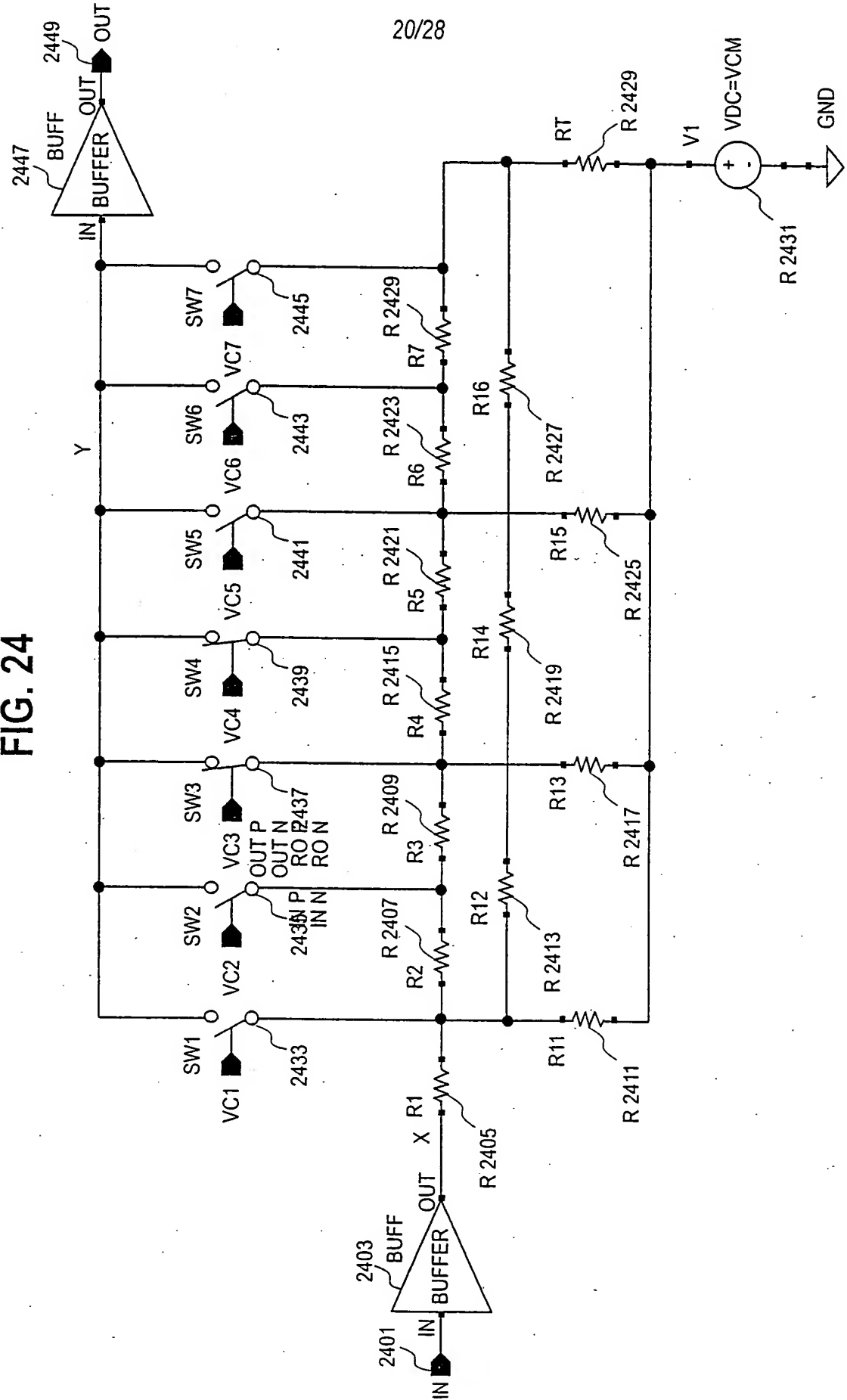
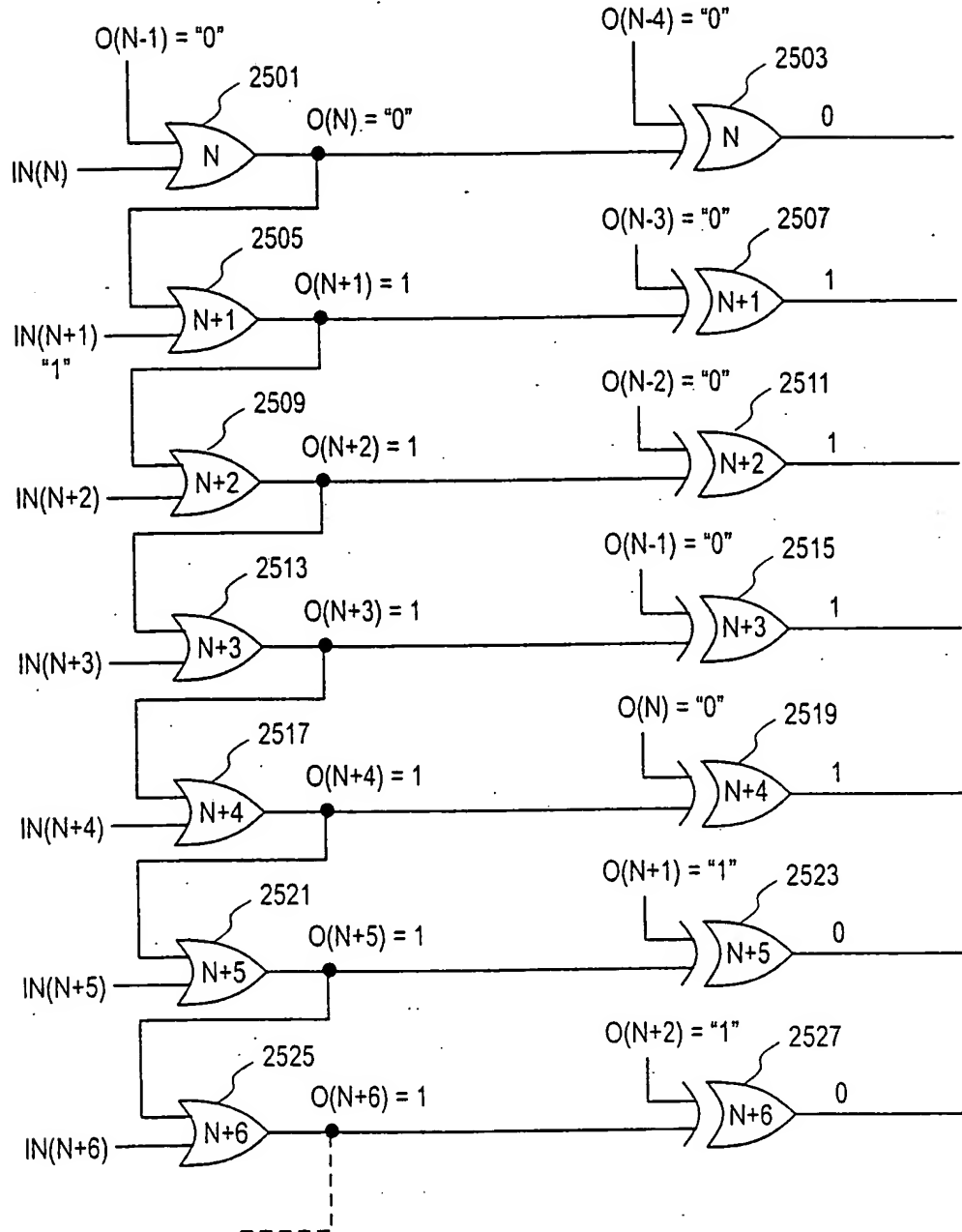


FIG. 25



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VCC

GND 0

VC<0:31>

VC<0:3>

2601

2603

2605

2607

2609

2611

2613

2615

2617

GND 0

GND 0

GND 0

GND 0

GND 0

GND 0

GND 0

GND 0

VC<4:7> VCC

VC<8:12> VCC

VC<12:15> VCC

VC<16:19> VCC

VC<20:23> VCC

VC<24:27> VCC

VC<28:31> VCC

OUT P

OUT N

ROP

RON

IN P

IN N

464 OHM = 14 \* 32 + 32/2

R 0

R = 464

R 3

R = 464

C 0

C = 45F

C 1

C = 45F

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FIG. 27

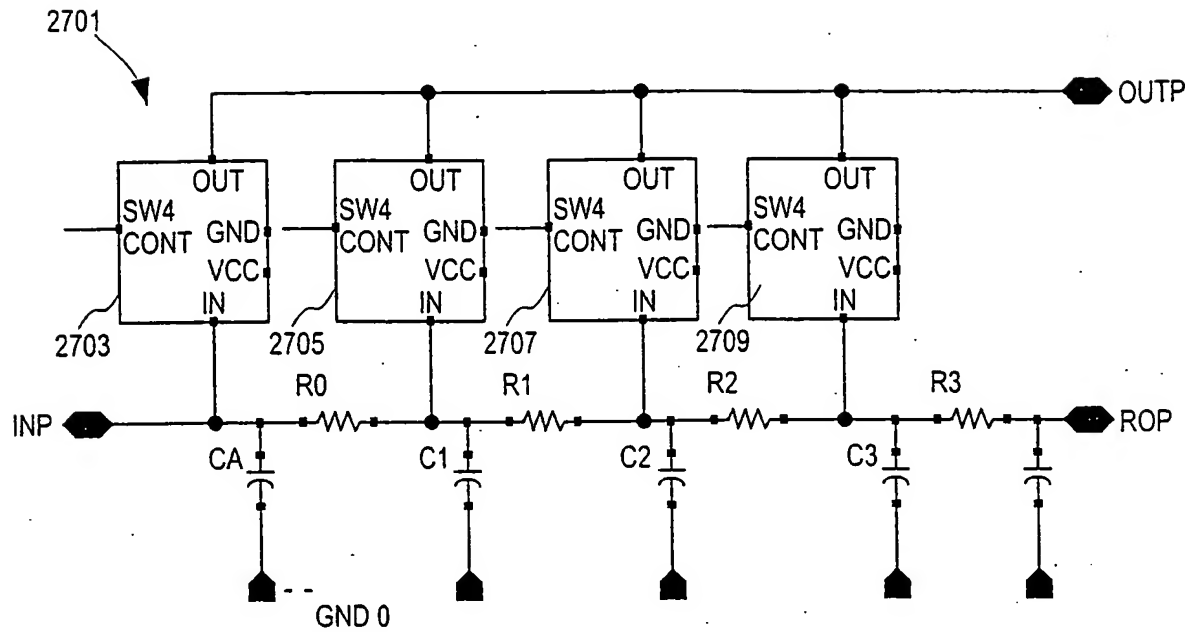
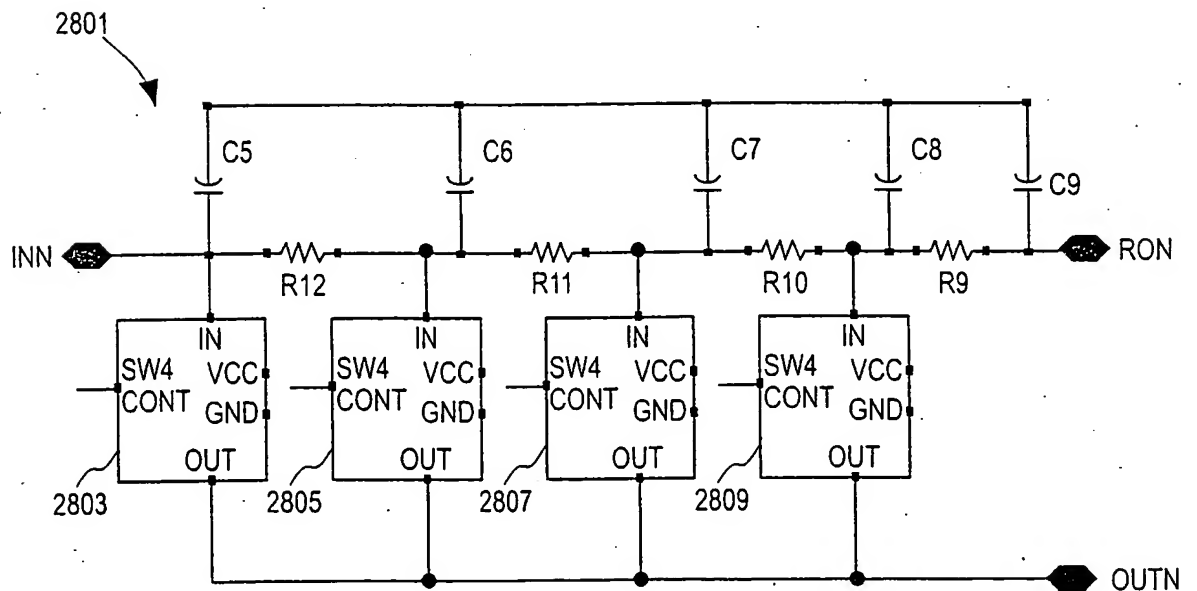
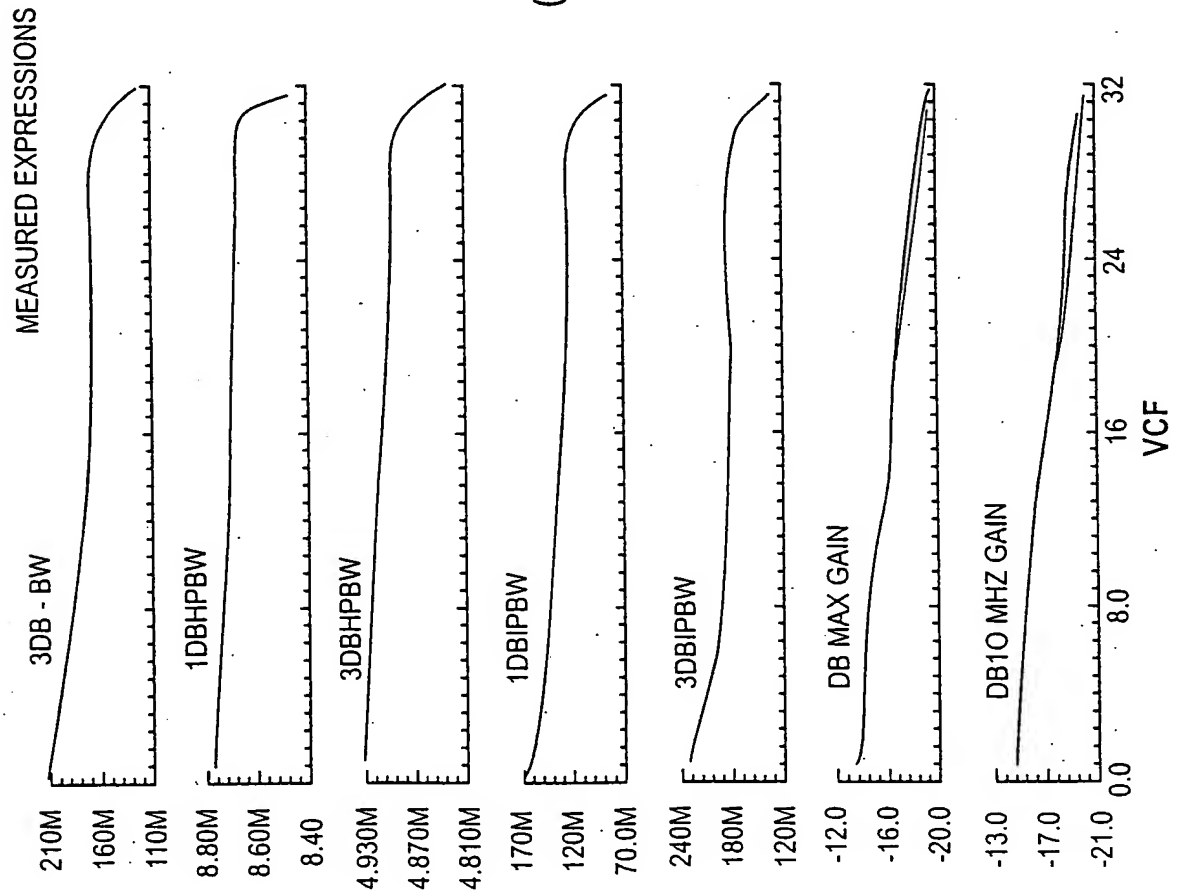
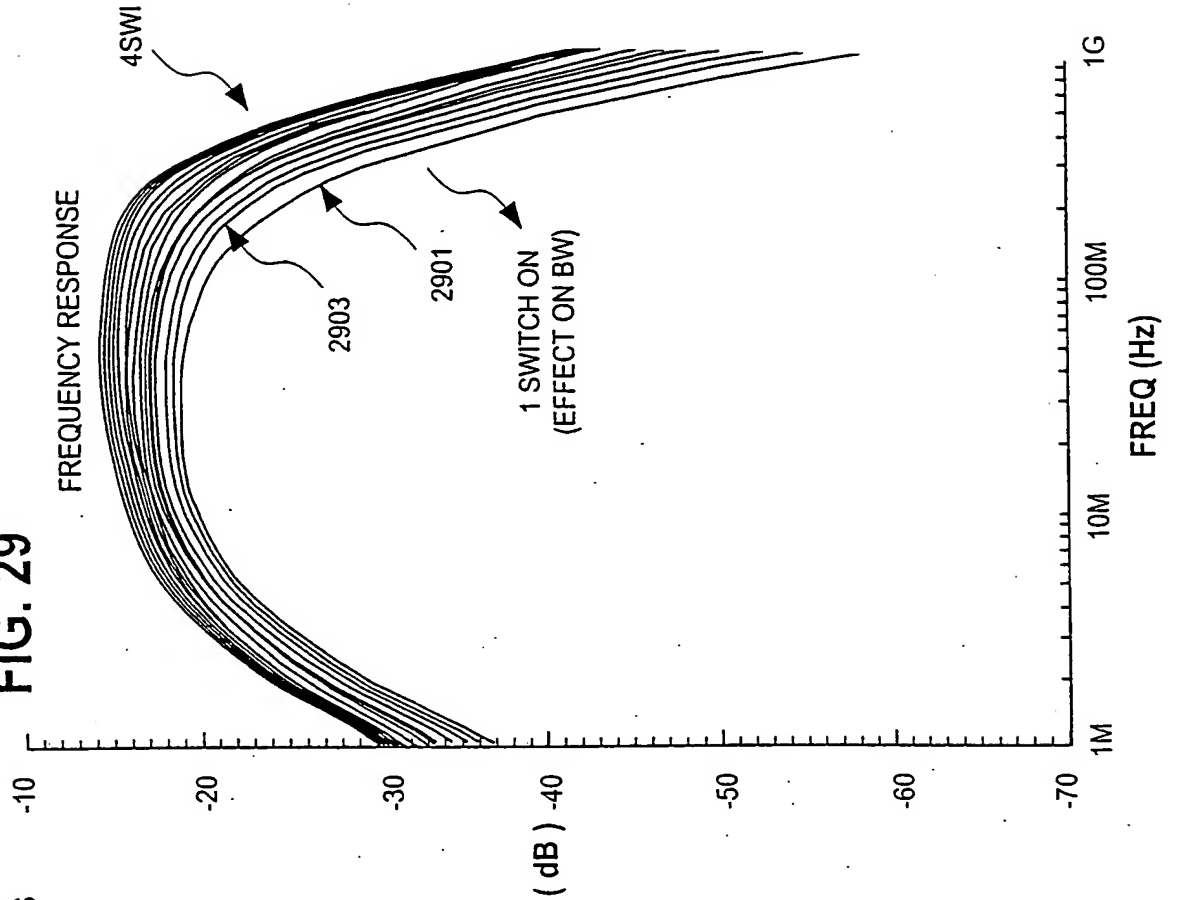


FIG. 28



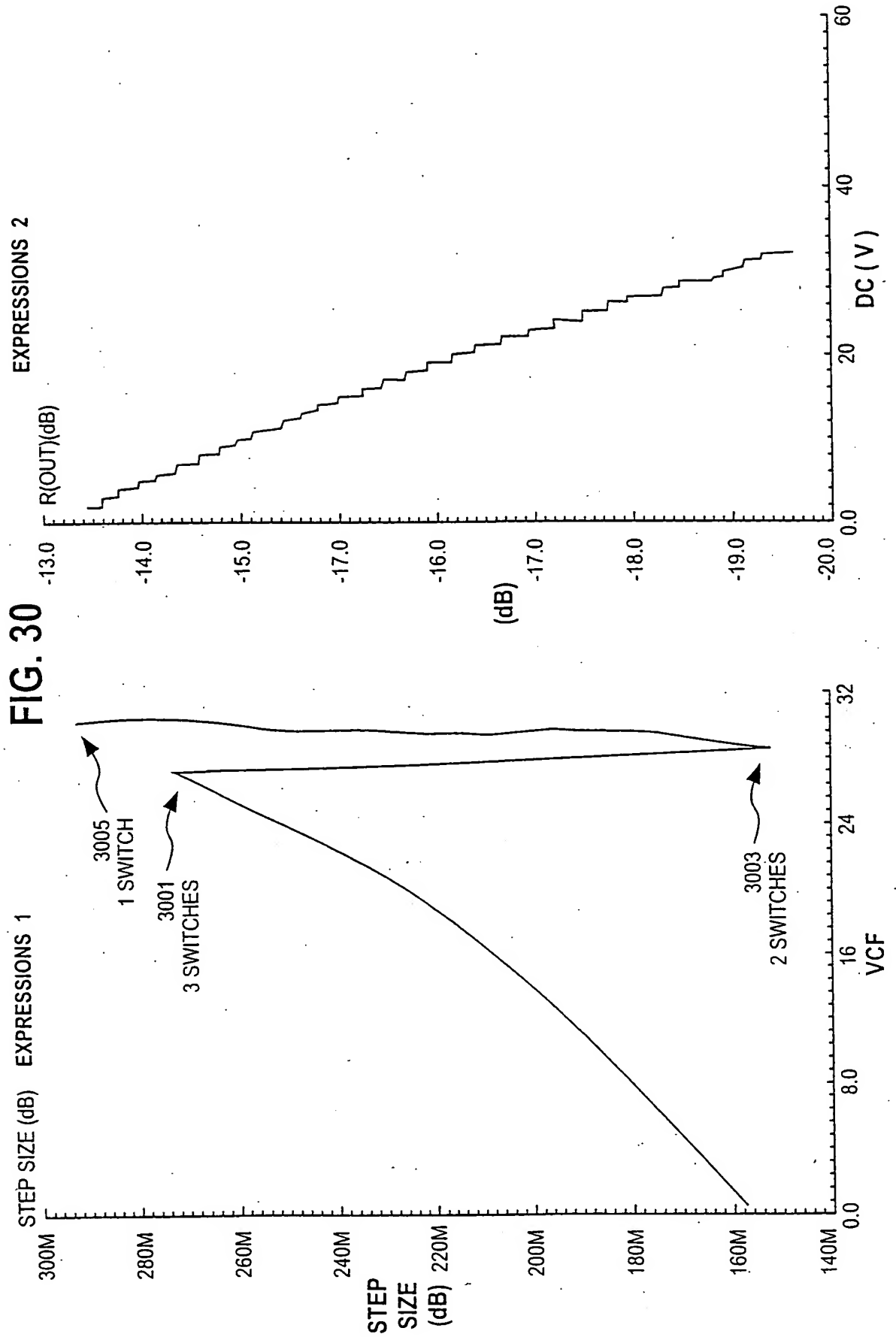
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FIG. 29





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FIG. 31

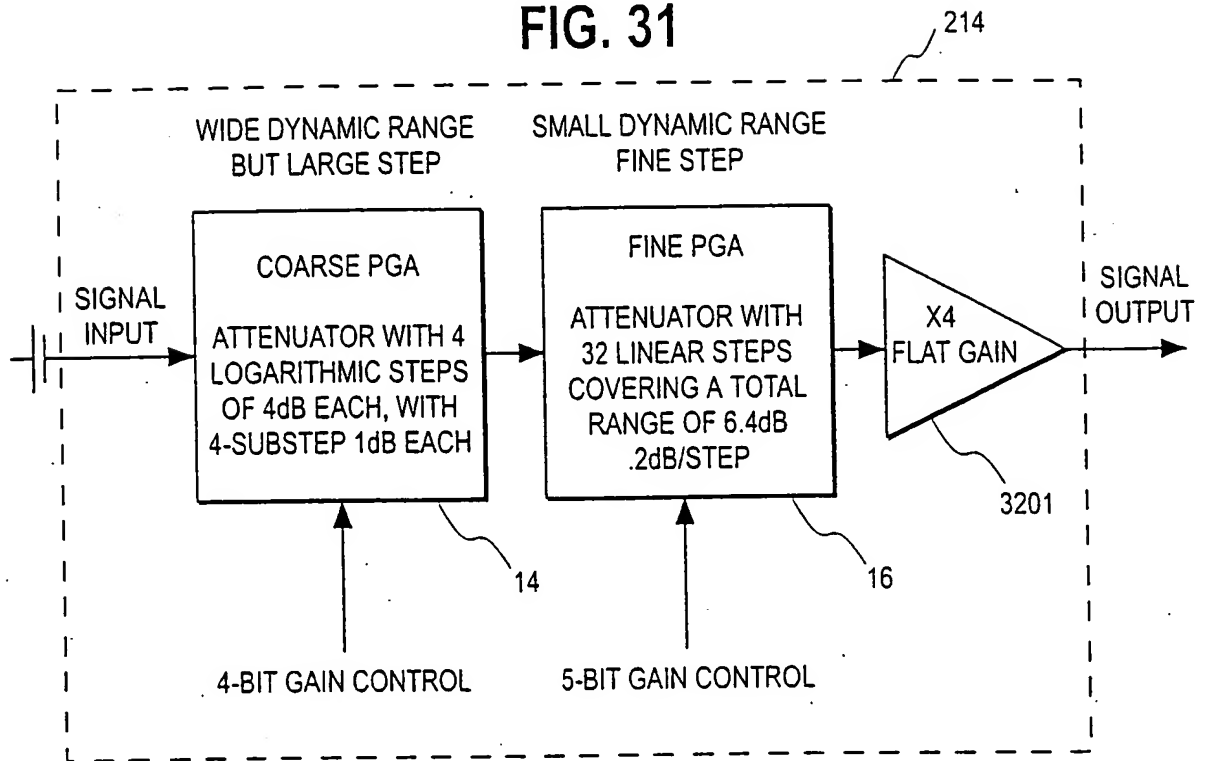
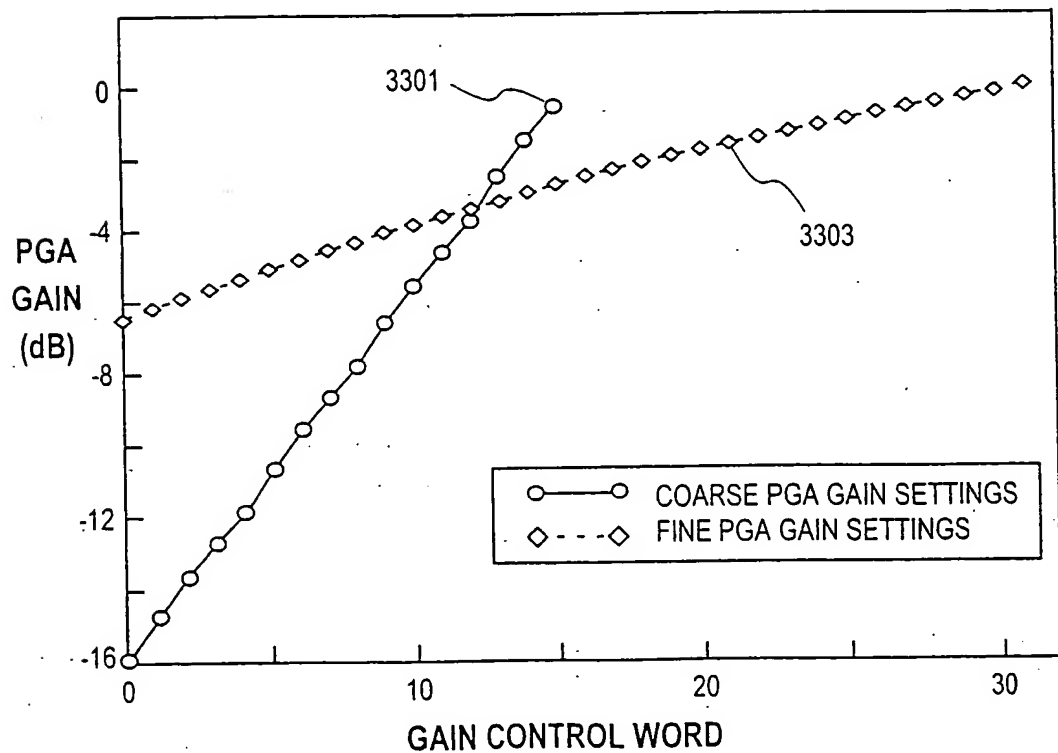
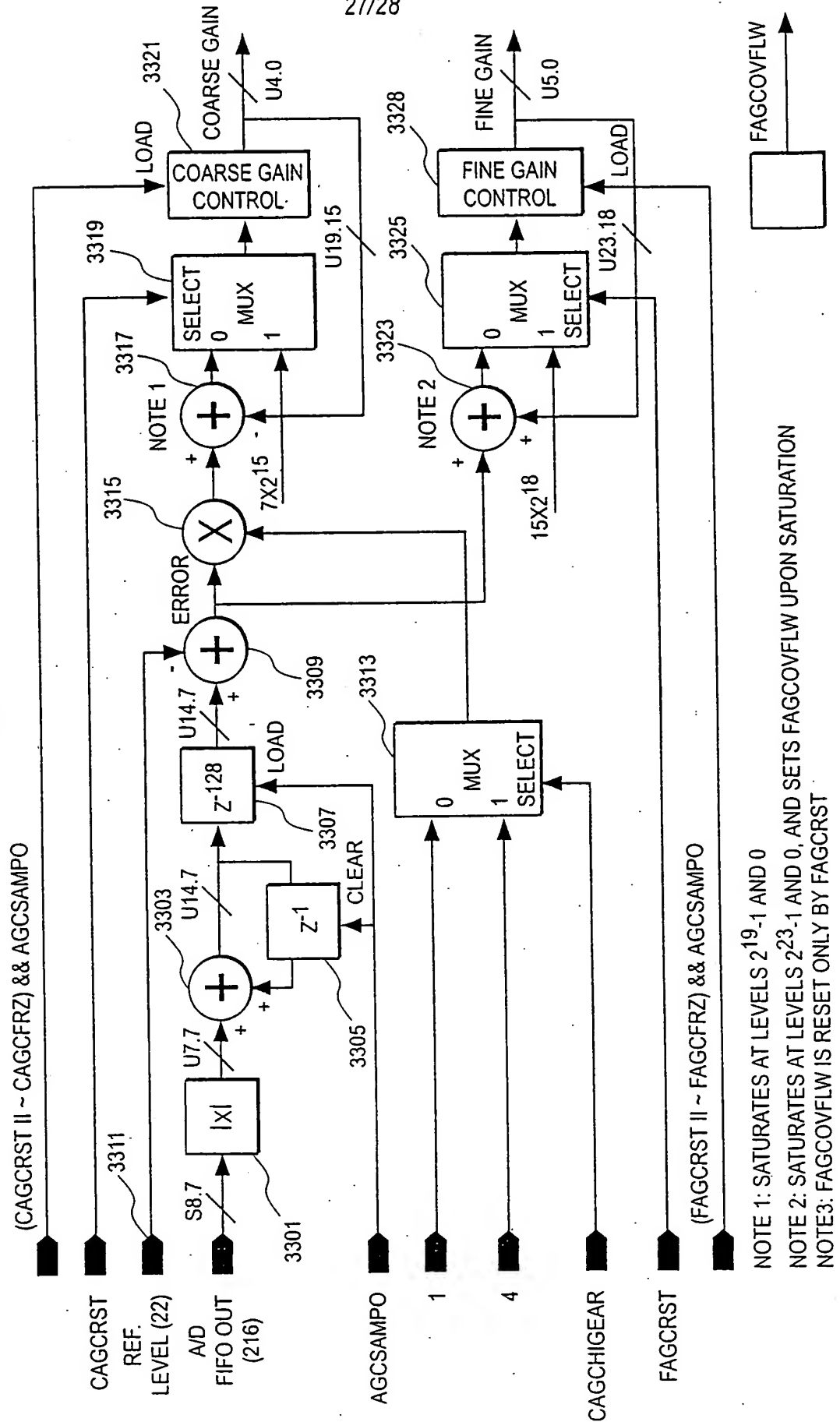


FIG. 32



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FIG. 33



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**FIG. 34**

CABLE LENGTH (m)	100 BASE- TX	GIGABIT, 100 OHM	GIGABIT, 85 OHM	GIGABIT, 115 OHM
0	3.691281	4.193192	4.193192	4.193192
20	3.806628	4.501316	4.362110	4.291369
40	3.877284	4.528136	4.457336	4.429949
60	3.894216	4.733644	4.695307	4.646305
80	4.055372	4.878569	4.847844	4.810019
100	4.225522	4.983545	4.991296	4.968900
120	4.357733	5.134131	5.194401	5.154263
140	4.556012	5.266919	5.380943	5.366309
160	4.764462	-	-	-

$$\begin{aligned} \text{TARGET } E\{IXI\} &= \text{A/D CLIPPING LEVEL} \times (E\{IXI\}/\text{RMS})/(\text{PEAK}/\text{RMS}) \\ &= 127 \times 0.7979/5.2 = 20 \end{aligned}$$